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HYDRO-ELECTRIC INQUIRY COMMISSION

REPORT
ON
WASDELL'S SYSTEM

W. D. GREGORY, CHAIRMAN M. J. HANEY LLOYD HARRIS J. ALLAN ROSS R. A. ROSS COMMISSIONERS

JOSEPH H. W. BOWER SECRETARY

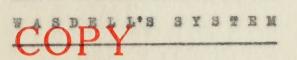




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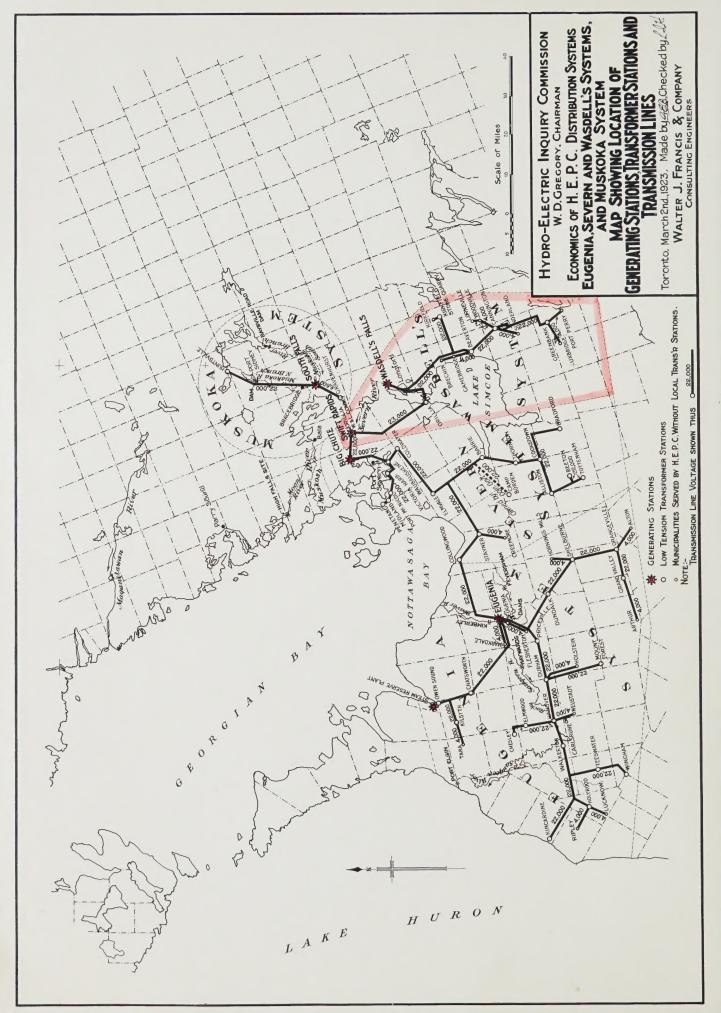
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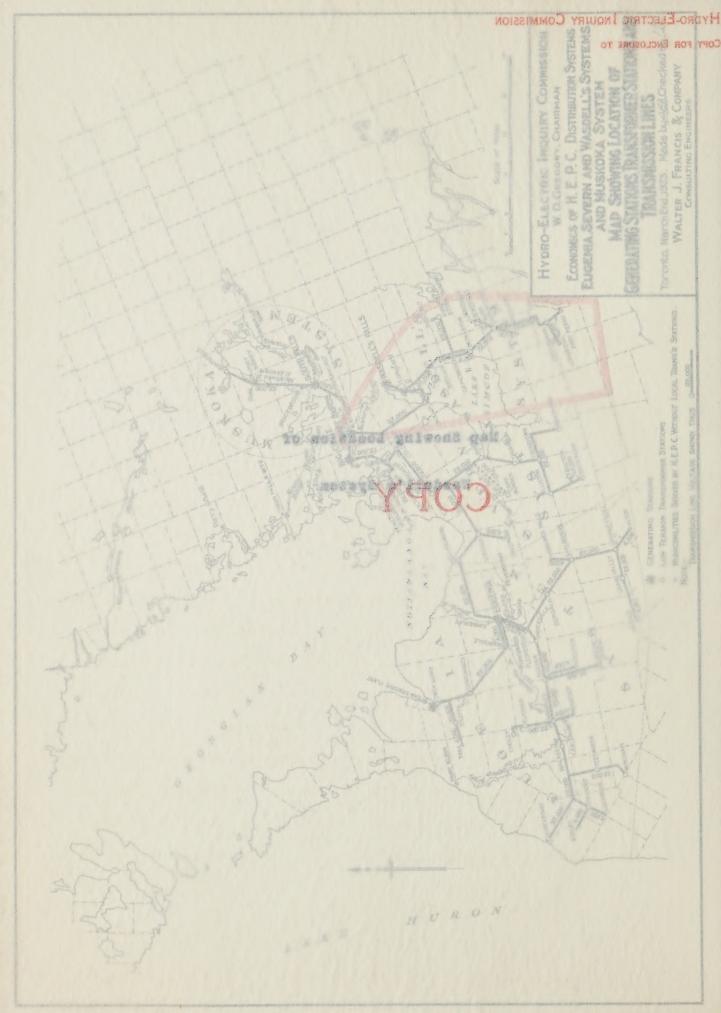
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To His Monour Henry Cockshutt,

Lieutenant-Governor of the Province of Ontario.

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Hay it Please Your Honour:-

at the fall product of the said of the In accordance with the commission directed to us to inquire into and report upon any power developments of the Hydro-Electric Power Commission of Ontario (herein referred to as "the Commission"), we have examined and considered the reports, agreements, records and accounts of the Commission and the Orders-in-Council and Statutes relating to the works and undertakings comprised in what is known as the "mascell a System", and herein report thereon. The reports submitted to us by our Consulting Engineer, Mr. Walter J. Francis, on the Engineering Economics and by our Auditors, Messrs. Price, Waterhouse & Company, on the accounts of the Wasdell's System are herewith transmitted to your Honour. These deal in a detailed manner with many of the subject matters of our report. Attention is drawn to the fact that some of the data in the reports of Mr. Francis and Messrs. Price, Waterhouse & Company are subject to revision, when account is taken of the accounts of the Commission for the fiscal year ending October 31st, 1922, which were not available when the reports were prepared. Deather Drie age of the land

District served by Wasdell's System

The part of the Province supplied by the system is a narrow strip east and south of Lake Simcoe, including

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THE PARK SE AMERICAN SEPTEMBER BY LOS STREET patietici perett upol to discultan raio glyra memas o al municipalities between Brechin, Uxbridge and Port Perry,
located in Ontario County and Kirkfield in Victoria County,
and is indicated on the tinted portion of the map, prepared
by Mr. Francis, prefacing this report. This map shows also
the Severn and Eugenia Systems which are interconnected with
the Wasdell's System for convenience of operation, these three
systems being sometimes referred to in the records of the
Commission as the "Combined Northern Systems".

Historical Sketch

Pursuant to resolutions adopted in June 1912 by
the Councils of certain municipalities in the County of
Ontario, the Commission investigated the possibilities of
developing a supply of checkrical power for these municipalities and selected as a site for power development, Wasdell's
Falls, on the Severn River, three miles below Lake Couchiching.
Estimates of the cost per horse-power from such development
were in August, 1912, submitted to the municipalities of
Beaverton, Brechin, Cannington, Sunderland and Woodville, and
in November, 1912, by-laws in favour of the project were
adopted by these municipalities.

On April 21st, 1913, the following Order-in-Council was passed:-

"Upon recommendation of the Hydro-Electric Power Commission of Ontario, in that behalf, the Committee of Council advise that pursuant to the provisions of "The Power Commission act" Chapter 19. 7 Edward VII and amendments thereto, the Commission be authorized to develop the water power known as Wasdell's Falls on the Severn River in

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the Province of Ontario such authority to

- 1. The purchase of the Riparian Rights necessary for the development.
- 2. The purchase of necessary material and equipment for construction of the plant at wasdells Falls for the generation of electrical energy and its transformation for transmission to the municipalities in the Cannington and Beaverton Mistricts.
- 3. The construction of transmission lines and transformer stations for delivery of power to the municipalities in the Cannington and Beaverton District, including both low and high tension transmission lines."

The Commission in 1913 purchased the power privilege of Wasdell's Falls and lands adjoining and proceeded with the construction of its first hydro-electric power plant for production of power, prior to this time having purchased the power transmitted to municipalities.

Contracts were entered into by five municipalities with the Commission during 1913 as follows:-

Municipality	ate of Contract	H.P. Lond
Bosverton Breakin	March 20th, 1913 April 2nd, 1913	250 50
Cannington Sunderland	March 10th. 1915	175
Woodville	August 15th,1913	70

The Wasdell's Falls generating station was ready for service on October 6th, 1914, and by November, 1914, the system was serving four municipalities, namely, Beaverton, Cannington, Sunderland and Woodville. Two transforming and distributing stations were constructed, one at Beaferten and

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.i. during 1913 as follows:-

Teto of Contra Tocala Larch 20th, 1913 20 Brocala April 2nd, 1913 170 Canalagron March 16th, 1913 170

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the second at Cannington, and these were supplied from the generating station at 22,000 volts. The municipalities of Sunderland and woodville were supplied over 4,000-volt feeders from the Cannington distributing station.

In January, 1915, the village of Brechin was supplied with power at 4,000 volts from the distributing station at Beaverton.

In June, 1920, the police village of Kirkfield and the Grushed Stone Company, Limited, of the same place, were added to the Wasdell's System both being supplied from a distributing station in the village, the former at 4,000 volts and the latter at 575 volts.

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started in 1918 in the vicinity of Beaverton, and at October 31st, 1921, rural lines were operated by Beaverton, Brechin. Sunderland and Woodville.

In the fall of 1922, the main transmission network was extended to Greenbank, from which point the municipalities of Uxbridge and Port Perry were served by a 4,000-volt line from the Greenbank distributing station.

The only generating station at present constructed on the Wasdell's System is that at Wasdell's Falls on the Severn Biver, a short distance from its source at Lake Couchiching. The Swift Rapids plant of the Orillia Water and Light Commission is about fifteen miles further down the river and the Big Chute plant of the Severn System is about

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 eight miles downstream from the Swift Rapids development, being only a short distance from the mouth of the Severn.

The capacity of this plant is approximately

860 horse-power at 80 per cent. power factor in accordance
with the rating of the Commission.

Up to October 31st, 1921, the Commission had constructed on the Masdell's System 78.7 miles of transmission and distribution lines; of these, 23.3 miles of 4.000-volt lines distribute power from the high voltage distributing stations to the amaller municipalities and the rural lines; the remaining 55.4 miles are operated at 22.000 volts and form a network supplying the larger municipalities, and 11st commission to generating stations of the Wasdell's, 3 exern and Eugenia Systems and the Swift Rapids station of the Orillia Water and Light Commission.

The transmission system is constructed on wooden poles throughout and presents no extraordinary features.

The transmission lines feed the various municipalities at low voltage through three substations, which
are listed in the table below, showing their voltage and
capacity:

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Sp to October Size, 1921, the Conmission had constructed on the Castle System 78.7 miles of transmission and distribution lines; of these, 25.3 miles of mission and form the construction lines; of these and construction and fight Commission.

The transmission system is constructed on states and presents no extraordinary

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Table	of	Transforming	and	Distributing	Stations
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	K.V.A.	Vol	tage	
Location	Capacity	H. V.	T. T.	Remarks
Beaverton	300	22,000	2,300	Supplies Beaverton and Brechin at 4.000 volts
Cannington	300	22,000	2,300/575	DIOUMAN RE TONO TONO
Kirkfield	225 Omn 1214a	22,000	2,300/575	Supplies Kirkfield at 4,000 volts, and the Grushed Stone Company at 575 volts.

with the exception of the rural lines there are no municipalities on the Wasdell's System in which the Commission distributes power retail to consumers. It acts as a wholesale distributor only and in all the municipalities power is distributed by the Audicipality itself or by local commission. It is understood that the accounting for all of the municipalities of the system is in accordance with the standard accounting system of the Commission. Details of the accounts of the various municipalities are given in the Annual Reports of the Commission.

AND RESIDENCE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN THE PERSON NAME

In 1916 tie lines were constructed connecting the Wasdell's System with the Orillia Commission at Longford and the Eugenia System with the Severn System at Collingwood. In 1917 an existing tie line between the Big Chute plant on the Severn System and the Ragged Rapids plant of the Orillia Commission was replaced by a tie line between the Big Chute plant and the new development of the Orillia Commission at Swift Rapids.

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 Of the transmission lines joining the Wasdell's and Big Chute developments, the Commission owns the section from the Wasdell's Falls station to Longford and from Swift Rapids to Big Chute, the intervening section extending from Longford to the Swift Rapids station being the property of the town of Orillia.

The construction of tie lines as above has rendered possible the interchange of power amongst the Eugenia, the Severn, the Wasdell's and the Orillia Commission Systems.

The parallel operation of these four plants has given very satisfactory service to the four systems concerned. The high head and large storage capacity of the Eugenia development make it very concerned as a peak load plant, and it is possible for it to draw power from the Severn System and conserve the water above the Eugenia development to be used during the period of peak load on the combined systems.

These plants serve that section of the Province of Ontario which lies between Port Perry and Uxbridge in Ontario County on the extreme east, and Tara and Kincardine in Bruce County on the extreme west, comprising two-thirds of Ontario County, a small portion of Victoria County, all of Simcoe County, Dufferin County, Grey County and Bruce County, and a small portion of the northern sections of Wellington and Huron Counties.

There are no undeveloped power sites on the Wasdell's System which have sufficient capacity to warrant

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Severa, the Faedell's and the Orillia Commission Systems.

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their development, and when the demand on the system exceeds
the capacity of the present development, power must be
developed at or purchased from some source outside the
boundaries of the Wasdell's System.

Wasdell's System, other than the development at Wasdell's Falls, is the hydro-electric development at Swift Rapids owned by the Orillia Water and Light Commission. This development, and the town of Orillia, which it supplies, are within the boundaries of the Wasdell's System, but do not form a part of it.

Since the commencement of operations the growth of the system has been fairly steady. The loads on the system were as follows, the figures being given in horse-power for the month of October in each year: 1915, 209; 1916, 250; 1917, 275; 1918, 261; 1919, 326; 1920, 452; 1921, 399; 1922, 420. These figures are the sum of the loads in October for the various municipalities and do not show the actual peak demands on the system, but they do indicate the growth of the demand. The amount of power sold to the Severn System for these years has not been included as it does not sepresent a growth of the Tasgell's System.

Owing to the interconnection of the Wasdell's,

Severn and Engenia Systems, and the methods of keeping the

records by the Commission, it is impracticable to separate

the records satisfactorily so as to indicate the actual peak

on any one part of the Combined Northern Systems.

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The only power development of any kind on the falls, is the hydro-electric development at hartt haplde owned by the orilla water and light Commission. This development, and the temp of Orillia, which it supplies, are within the boundaries of the Hardell's System, hat do not form a part of it.

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Cutus to the interconnection of the Bashell's,

The rate of consumers to population at the end of 1921 was 24.5 per cent. which compares well with other systems. The general growth in the load and in the number of consumers has been comparatively steady making due allowance for the abnormal conditions following the armistice in November, 1918, and the indications are that the demands are still increasing.

At the present time the Wasdell's System is loaded to the full capacity of the plant, if the supply of about 400 horse-power to the Severn System is included. If this load be withdrawn from the Severn System and used on the Wasdell's System it would probably pake care of the normal growth of the system for three or four years but before then the future source of power supply must be considered.

Capital Costs

The following table shows the progressive capital costs of the Wasdell's System (cents omitted):

Go. I had a sanka	1914		Finding 1916	October 3	lst, 1918
Capital Assets	TATE	All the state of the Party of t			
Power Development	\$112,832	\$132,907	\$136,658	\$139,913	\$140,563
Transmission Lines	94,051	95,234	114,406	110,298	110,470
Transforming and Dis-		e is			
tributing Stations	3,444	13,430	13,637	14,520	14,735
Rural Lines			coops.		4,357
Total	\$210,327	\$241,571	\$264,701	\$264,731	\$270,125

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Table of Progressive Capital Costs (contd)

	F1 sc	al Year An	ding Octob	er 31st,	
Capital Assets	1919	1926	1921	1922	
Power Development	\$140,787	\$141,760	\$141,885	\$144,379	
Transmission Lines	110,243	155,690	154,189	203,187	
Transforming and Dis- tributing Stations	14,736	26,218	26,909	31,485	
Rural Lines	7,698	11,282	12,399	14,956	algenerate of the present of the second of t
Total	\$273,464	\$352,947	\$335,382	\$394,007	

From this table it will be seen that the expenditures on this system in the several years were as follows:

\$210,327 \$31,244 \$23,130 \$30 \$5,394 \$3,339 \$59,483 \$2,425 \$58,625

an appropriation of \$35,000 was voted in 1923, have been or are carried out, the investment in the system at the close of the fiscal year 1923 will be approximately \$450,000. As \$25,000 of the appropriation for 1923 was for rural lines, if this amount be expended, the total investment in rural lines would be approximately \$40,000 on October 31st, 1923. A portion of this amount the Commission will doubtless recommend the Province to pay in accordance with the pravisions of the Rural Hydro-Electric Distribution Act, 1921, as amended in 1923.

Power Development Constructed under Contract

The Engineers of the Commission estimated the cost of the Wasdell's Palls Power Development at \$114,842.00. The Development was constructed under contract at a cost of \$113,000,00, and put into operation on October 6th, 1914. Since the commencement of operation, the Commission has installed additional equipment costing \$34,000.00, which together with the original cost

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an appropriation of v35,060 was voted in 1925, have been or are

The Regimeers of the Counts viou estimated the cost of

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of \$113,000.00 makes a total investment in the plant of approximately \$147,000.00 as of June, 1923.

Commission that the expenditures made since 1914 were not included in the estimate of \$114.842.00 as above.

Capital Costs per Herse-power Developed

The fractional capital costs per rated plant horsepower developed for the years 1916 to 1922, inclusive, is shown in the following table:

Table of Capital C	Fis	cal years	ending	October 31	st
		1916	1916	1917	1918
ower Development	131.20	\$154.50	\$158.90	\$162.70	\$163.40
Fransmission Line Fransforming and bis	PY	110.70	133.00	128.20	128.50
tributing Stations Tural Lines	4.00	15.60	15.80	16.90	17.10
GENT WINGS	What was experienced with management or a compression of great and the contract of the contrac	Applica.		diditigis. The first of the second se	5.10
Total	244.60	\$280.80	\$307.70	\$307.80	\$314.16

	Pigasi	transe and	ling Octobe	the same to the same the same the same the same that the s
	1919	1920	1921	1922
Power Development	\$163.70	\$164.80	\$165.00	\$167.88
Fransmission Lines Fransforming and Dis-	128.20	178.70	179.30	236.26
tributing Stations	17.10	30.50	31.30	36.61
dural Lines	9.00	13.10	14.40	17.38

We direct Your Honour's attention to the comment of Mr. Francis at page 49 of his report, submitted herewith, with reference to the capital costs of the generating plant to October 51st, 1921, which is as follows:

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Stat, 1921, which is as follows:

v; *

"The recorded capital costs of the generating plant at Wasdell's Fails show somewhat high construction costs even for such a small, low-head plant and now stand at about \$165 per horse-power, but this figure is not un-reasonable."

Prior to the year 1917, the estimates voted by the Legislature do not give in detail the appropriations made for the several undertakings of the Commission.

Payments, however, on account of the appropriations appear to have been made to the Commission in pursuance of Orders-in-Council specifying the particular undertaking or object for which payments were made.

On April 19th, 1913, prior to which date the Commission had involved. It the request of municipalities now in the Vasdell's System, the question of supply of electrical power, an Order-in-Council was passed directing the payment to the Commission of \$20,000 "on account of Sincee Lines".

On October 31st, 1914, and November 20th, 1914.

Orders-in-Council directed the payment to the Commission of \$20,000 and \$50,000 respectively on account of Wasdell's Falls. As no further advances appear to have been made to the Commission until 1917 specifically for the purposes of the Wasdell's System, the cost of \$264,701 of this undertaking to October 31st, 1916, was apparently to a large extent met out of other funds in the hands of the Commission. From 1917 to 1922 the appropriations, advances and expenditures on the system are shown in the following table:

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Prior to the year 1917, the estimates voted by the

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appear to have been made to the Commission in pursuones of

to the Commission of 220,000 "on second of Simoo Lines".

Orders-in-Council directed the payment to the Commission of

Year	Appı	ropriation	Advance	Expended	Over-expended	Unexpended
1917	*	30,000	\$30,000	\$ 30		\$29,970
1918		1.000	1,000	5,394	\$ 4.394	alle
1919		1,000	1,000	3,339	2,539	•
1920		90,000	50,000	59,483	9,483	Mar. 1997
1921		75.000	25,000	2,435	**	22,565
1922		120,000	60,900	58,625	•	2,275

pay about the Alice Salamon by the decrees in constant they, 1910,

The advance of \$30,000 in 1917 was made in pursuance of two of her, war, so for the reasons outcome, think are annihild on an Order-in-Council dated February 17th, 1917, estensibly for "Wasdell's System, L.T. Transmission Lines". As practically THE RESIDENCE AND ADDRESS. no expensiture on capital account for the system was made during the 1917 fiscal year, this advance of \$30,000 was used to replace monies expended by the Commission upon the system from funds held for other purposes, or was employed by the Commission for other objects than the Wasdell's System. Attention is also drawn to THE BUILDING NO. the fact that advances made for the system in the years 1918, 1919, 1920, 1921 and 1922 in each case differs materially from Comment upon the variation the amounts expended in those years. between advances and expenditures for and upon particular undertakings and the employment of funds voted and advanced for one object upon other works of the Commission is reserved for a General Report upon the subject.

Reserve for Renewals

The balance in the reserve for renewels account at October 31st, 1922, amounted to \$35,564.12.

AT the description for the Special years analog driven by a 1841.

in the cost of power to the municipal ities of an annual charge of 36% on the capital investment, together with interest at 4%

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per annum on the balance of the reserve to October 31st, 1919.

During 1920, upon the advice of its Engineers, the Commission reduced the annual renewal rate from 35% to 2%, while the interest rate of 4% remained unchanged.

The accounts of the Commission were so adjusted that the rate of 2% was made effective from the inception of the system to October 31st, 1919, and this adjustment resulted in a reduction of \$20,585.60 in the renewal reserve, which was applied to the following municipalities as a reduction in the cost of power supplied to them during this period:

Beaverton	\$ 4,786.70
Brechin 3 Total William	** 5,659.49
Cannington	4,599.05
Sunderland	3,733.72
Woodwikin D	3,806.64
Total OPY	\$20,585.60

The annual rate of 25 was determined by a re-classification of the properties as reflected in the book accounts at October 51st, 1920, made by the Engineering Department of the Commission.

In December, 1922, the Commission decided to reduce the depreciation rate for this system from 2% to 1.5% and to make this reduction retroactive to the date of first operation.

The revision was made by the Commission and the accounts of the Commission for the fiscal year ending October 51st, 1921, show that it resulted in a reduction as of October 51st, 1921, in the renewal reserve of \$10,578.06, of which \$5,500.76 has been applied as a credit to the municipalities and \$5,077.30 as an addition to the reserve for contingencies. This reduction has the effect of decreasing the cost of power for each year in which

THE ARREST AND THE RESIDENCE THE PRESENCES THE SECURITIES AND SECURITIES.

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provision was made for such reserve to all municipalities supplied with power by the Commission during such year, and pre tanto relieve of liability for unpaid balances those municipalities which have not paid to the Commission the full amount of power bills rendered them, gives credit balances to those that have, and, if other unit costs do not increase, will reduce the future annual price of power to all municipalities.

Expenditures charged to renewal reserve to October Slat, 1922, amounted to \$3,340.74 and the amount at the revised rate (including interest) credited to the account for the fiscal year ending on that date was \$7,366.01.

While our Consulting Engineer has reported in regard to the reserve for reported PM October 31st, 1921, this last reduction made by the Commission has not been reported upon by him and the general subject of reserve for renewals will be further dealt with in our Seneral Report.

Asserve for Sinking Fund

All municipalities on the Wasdell's System were relieved,
by the Commission as permitted by the Act, from payment of
sinking fund for a period of five years after power was first
supplied to them, and from the dates that sinking fund
collections commenced to October 31st, 1922, the amounts
provided and included as a part of the cost of power, tegether
with interest are as follows:

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Runicipalities \$7.720.56
Companies 8.758.22
Rural Lines 860.81
Interest at 45 683.10

To \$ a 1 \$18,022.69

The above shows the aggregate amount of sinking fund collectible at October 51st, 1922, from the five municipalities which had taken power for six years or longer, the initial charge being made in the sixth year's power cost.

The sinking fund reserve of the Masdell's System at October 31st, 1921, included the following amounts as applying to power supplied the Severn System.

Year ending October 31st, 1920 Year ending October 31st, 1921 \$1,788.52 1,548.59 \$3,337.11

During the year 1920, power was furnished the Severn System at a fixed rate of \$25.00 per horse-power.

After providing for sinking fund of \$1,788.52 on the portion of works used in the generation and transmission of such power. the Wasdell's System incurred a loss of \$2,295.00. It will, therefore, be noted that the flat rate of \$25.00 per horse-power was inadequate to provide for operating expenses and fixed charges inclusive of sinking fund in this year.

In the year 1921, when the Severn System was supplied power at actual cost, and paid as a part of such cost sinking fund charges in the amount of \$1,548.59, the

190 8,720.22 Rumal Lines 200.21 Interest 25 45 225.42

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power was inadequate to provide for operating expenses and

rixed charges inclusive of sinking fund in this year.

supplied power at actual cost, and paid on a park of spon dessesses supplied to the amount of \$1.646.59, the

question arises whether or not the municipalities on the Severn System are acquiring an interest in the Wasdell's System with the payment of sinking fund.

In this same connection our Accountants have made the following comment:

"Equity of System Receiving Power or System Furnishing Power

Where there is an interchange of power between Systems and the charge for such power is on the basis of cost the consumers on the lines of the system receiving and using the power will be in the position of paying for and acquiring equities in the plant and property of the System where the power is generated to the extent that provisions for sinking funds are made.

Reserve for Centingencies

to provide for losses not arising at regular intervals or not wholly applicable to the period in which they were insurred.

The reserve is built up by:

- (a) Charges to the municipalities, to sundry customers and to the Severn System at the rate of 25¢ per horse-power per annum included as part of the cost of power delivered to them.
 - (b) Profit from the sale of equipment.
 - (c) Interest at 4% per annum.

At October 31st, 1922, the balance in the reserve account was \$6,068.13 made up as follows:

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 - (b) Froilt from the sule of equipments
 - (o) Interest of 45 per enam.

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Amounts included as part of the cost of power delivered -

90 municipalities water. College 8 748.66 To private companies and Severn System

1,309.26

\$2,057.92

Not profit on sales of aluminum be all set to me to the cable and sundry equipment

12,614.70

Interest at 4% per annum

1,838.21

count added on account of credit from Renewal Reserve on revision of depreciation rate think with with

5,077.30

Total Credits

\$21,588.13

Deduct -

Expenditures in 1920 applied against the cost of stringing aluminum cable on a large for books (10) portion of the system.

\$14,519.07

To meet lesses in 1930 and 1922 on power sold to private companies sheet land the 1,000.93

15,520.00

Balance as at October 31st, 1922 6 \$ 5,068.13

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Mr. Francis in his report to us, transmitted here-STREET, SAN THE REAL PROPERTY. with, in dealing with the contingency reserve account as at 134 ME 305 4 2 2 75 14 2 15 4 5 October 31st, 1921, stated:

rance and the first and the following source with the course of the course of the course "Considering the heavy losses which might be occasioned through catastrophe, it is felt that the total amount at the credit of this fund, namely \$241.00, should be augmented by increasing the small allowance for contingencies, and when a reserve of say \$5,000 to \$10,000 will have been built up, the rates can be readjusted to suit the conditions found after several further years of experience."

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PRINCIPLE SERVICE SERVICES negative designation of the

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The sum of \$5.077.30 transferred to centingency reserve from the reserve for renewals, following the revision of depreciation rates adopted in December, 1922, and interest accruals, have brought the contingency reserve to an amount somewhat in excess of Mr. Francis' minimum recommendation.

Accounts with Municipalities

Accounts with municipalities are divided by the Commission as follows:

management buttered they have that registers of the

- (a) Power Accounts Receivable
- (b) Due by or to municipalities in respect of the cost of power furnished them as determined under the Power Commission Act.

(a) Power Accounts Revervable

At Sotober 51st, 1921, the balance of power accounts receivable amounted to \$6,665.12. These accounts represent unpaid balances in respect of interim power bills which are paid currently by the municipalities, and were all paid prior to September 20th, 1922, the date on which these accounts were examined by our accountants.

(b) Due by Municipalities in respect of the cost of power

At the close of each fiscal year, the interim power bills rendered menthly are adjusted to meetathe operating cost of the system, as provided by the Power Commission Act.

It does not appaar to be the practice of the municipalities to pay in cash these additional charges, but

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instead the Commission increases the interim rates in subsequent periods and thereby reduces the accumulated deficits of prior periods.

Regarding the payment of these deficits, section Sa of the Power Commission Act provides that:

"The Commission may from time to time during the first three years after any municipality shall first begin to take power from the Commission extend the time for payment of the sums payable by any municipality"

· «·	Debit Balances	Credit Balances
Boaverton Brochin	\$2,467.99	\$1,639.84
Cannington	1,204.96	CANTAL . P
Rirkfield O	P. Y.744.78	42.41
Woodville Port Perry Uxbridge	1,154.86	yeda in wa
	\$6,654.10	\$1,682.25

Results of Operations

Power is supplied the municipalities on the Wasdell's System on a cost basis as outlined in the Power Commission act. The cost of such power consists of:

- 1. Operating and maintenance expenses.
- 2. Interest on monies invested in the works of the system.
- 3. Provision for the renewal of the works.
 - 4. Sinking fund on a thirty year basis to repay the investment in the system.

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instead the Commission increases the interim rates in sub-
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A list of the balances owing by or at the oradic

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- ned not desired a walder to described. . AND THE REST OF THE PARTY OF
- .4 \$ Provision for the renewal of the · BOX TO W
- Sinking fund on a thirty year basis AN CAPCE The Capendage of the Capen at

Power is also supplied the severn System on a cost basis and the Grushod Stone Company, Limited, at fixed rates. Up to the fiscal year ending October Slat, 1921, the Severn System received power at a flat rate of \$25.00 per horse-power.

NAME AND ADDRESS OF THE OWNER, AND ADDRESS OF THE OWNER, WHEN PERSON ADDRESS OF THE OWNER,

The operating account of the system, as stated in the published accounts of the Commission for the five years ending October Elst, 1922, is as follows:

Particulars	1910	1919	r ending	1921	1922
Revenue - 1/4	ikantarian 1864-1964 papa nilahiketirin diliket rahi sahilih terbara - nilahilih diliket	r-Address-Austra von vondellen de prochet Gregory . 1, fille dellen.	ng oggettelemente oc gree – it elightelighet en en earre-claire till nightelemente och et en earre	a valentiilija kalentiin tala kalentiin kalentiin kalentiin kalentiin kalentiin kalentiin kalentiin kalentiin k	от тите динитерация объектор на объектор на при поставления на при поставления на при поставления на при поста
From Municipal ities					
From Severn System From Private Companies		15,509		12,364	
Potal Revenue C	9,110	\$31,724	\$39,164	\$42,392	\$41,829
Operating Expenses	9,018	10,680	14,733	15,369	17,351
Balance	\$20,088	221,044	324,431	327,023	324,478
Pized Charges				un die der Geland der Wegen von der Geland d	ый дорого (1966 году на 1966 год На 1966 году на 196
interest ,			\$13,526		
rovision for Benevals rovision for Sinking	AND AND ASSESSED ASSESSED.	7,302	8,958		
rovision for Conting-	alle care a service and care	to estact in the second	5,297	5,661	5,521
eacles	149	326	253	241	956
otal Fired Charges -	\$20,082	321,044	\$25,014	\$27,023	\$24,896
oss - transferred to reserve for contin-		41		mander our et to the commission of the commissio	。 《《《··································
genoies -			\$563		\$418

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the fiscal year ending Sutober Sist, 1921, the Levenn System

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dereber Siet, 1910, to as follows:

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The losses shown above as transferred to the contingency reserve were sustained in supplying power to companies.

Losses arising in this connection for 1921 have been charged against the various municipalities on the system. The profits or losses arising from the sale of power to the Severn System have also been applied against the municipalities.

The operating accounts from the inception of the system to October 31st, 1921, as stated in the published accounts of the Commission are subject to reductions made in 1920 and 1922 in renewal charges. This reduction has the effect of reducing the fixed charges as shown by the aforestated operating account and also the final costs per horse-power as follows:

	1918	1919	1920	1921
	PY 329,100	\$31,723	\$39,746	\$42,392
Less - Reduction in Renewal Charges	5,315	5,313	1,485	1,613
Adjusted Costs	\$23,785	\$26,410	\$38,261	\$40,779
Horse-power billed	597.4	901.1	910.0	962.5
Cost per homes-power billed as adjusted	\$39.82	\$29,31	\$42.04	\$42.36

From the operating account as adjusted, it will be noted that the cost per horse-power billed decreased considerably during 1919 and increased during 1920 and 1921. The following table showing the detailed costs per horse-power billed

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illustrates in what respect and to what extent the costs have varied:

Des Tollens	1918	1919	1920	1921	1922
Operation	\$6.36	\$5.94	\$6.71	\$8.01)	
Maintenance Overhead & General :	4.25	1.93	3.92	3. 57	\$18.15
Expenses	4.50	5.99	5 - 57	4.58)	
Interest	17.82	12.79	14.86	15.24	14.11
Renewals	6.64	4.41	4.89	5.02	5.16
Sinking Fund	**		5.81	5.88	5.78
Contingancies	•25	-25	.28	.28	1.00
970 3	\$39.82	\$29.31	\$42.04	\$42.36	\$44.20

taken by the municipalities:

Zunic ipality		2.9	Minimum Load	Maximum Load	Yearly Lead to	Estima ted
			H.P.	H.P.	Ost. 31/21 H. P.	Required.
Beaverton	Oot.	1914	53.5	107.4	78.0	250.0
Brechin	Dec.	1914	30.4	46.6	36.7	50.0
Cannington	Oot.	1914	50.2	81.1	64.4	175.0
Kirkfielä	June	1920	13.9	13.9	13.9	50.0
Sunderland	Oct.	1914	24.0	49.5	40.0	80.0
Woodville	Oct.	1914	35.9	57.2	42.8	70.0
				and the		17.4.
					875.8	675.0

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The estimated loads exceeded and actual average yearly loads by approximately 399.2 herse-power or 144%.

to the municipalities on the Wasdell's Lystem as compared with the actual cost of power supplied during the full year periods of operation:

Eunicipality	Yearly Minimum Actual Cost per H.P.	Year ly Haximum Actual Cost per H.P.	Yearly Average Actual Cost per H.P.	Estimated Cost pre- pared by Hydro	Per cent. of Actual Cost over Estimated Cost
Beaverton	\$20.42	\$71.70	\$48.92	\$27.99	74
Brechin	28.04	93.66	69.69	35.29	97
Camington	25-86	173.42	53.51	\$3.95	57
Eirkfiel4	70.55	70.35	70.65	45.00	57
Sunderland	35.42	94.41	68.28	44.54	53
Woodville	31.79	84.07	63.82	41.91	52

As shown by the feregoing, the actual cost has exceeded the estimated cost in all of the municipalities on the system.

to 1.5% made by the Commission in December 1922, as hereinbefore noted, resulting in a credit to the municipalities of \$5.500.76. has the effect of in a slight degree reducing the annual cost of power from the inception of the system and accordingly renders the figures shown in the foregoing table subject to amendment. The retimated leads oncooked and attent out.

The fullowing is a table of the estimates as submitted.

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Sale of Power to the Severn System

The following table shows the revenue received by the Wasdell's System from the sale of power at a flat rate to the Severn System, together with the expenses applicable thereto fot the three years ending October Elst, 1920 (cents omitted), before giving effect to the reduction in the renewal rate:

Operating Expenses and Pixed Charges			
Fixed Charges	Operati:		and
	Fixed	Charges	

-	1918	Control of the control of	1920
	\$9,125	\$15,509	\$12,417
A () 1	12,313	14,920	14,712
	53,187	\$ 589	*2,295

Horse-power Bills	20	D	V 382.8	613.4	492.1
Horse-power Bills Cost per Horse-Po Billed	CU	T	\$ \$25.15	# \$25.28	\$ \$25.23

- Average herse-power bilied, reduced by line loss thereby increasing the flat rate of \$25.00

The profits and losses shown above have been credited or charged against the municipalities on the system. From the date power was first supplied the Severn System, to October 31st, 1917, a profit of \$7,449.00 was realized which when taken into consideration with the profits and losses shown above results in a net profit of \$2,606.00 which was credited to the municipalities and resulted in a slight reduction in the cost of power to them over the period from September 1916 to October 51st, 1920.

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Sale of Fower to Companies

Stone Company, Limited, in the fiscal year ending October 51st, 1920, under terms of a contract for a period of five years from April 22nd, 1920, with extension privileges, at a rate of \$1.00 per month per horse-power of maximum demand, as a service charge, plus a consumption charge per kilowatt hour on a differential basis.

The following shows the revenue received from the sale
of power to the Crushed Stone Company, Limited, with the relative operating expenses and fixed charges for the two years
ending October Totolph Defore giving effect to the reduction
in the renewal rates:

1920	1921
\$5,097.00 \$8,4	
5,679.00	10,755.00
\$582.00	\$2,315.00
	\$5,097.00 5,679.00 \$582.00

The loss for 1920 was transferred to the contingency reserve, while the loss for 1921 was charged to the various municipalities on the system in proportion to the amounts paid by them in respect of maintenance and certain operating costs of the system.

A loss of \$418.25 in the year ending October 31st, 1922, was debited to the contingency reserve.

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was debited to the contingency reserve.

Rural Lines

At October 31st, 1922, rwal lines on the Tasdell's System were operated by Beaverton, Brochin, Sunderland, Woodville and Cannington.

These municipalities collect the revenue, maintain the lines and pay the Commission interest and sinking fund on the investment.

The interest and sinking fund collected on these rural
lines for the five years ending October 51st, 1922, are as
follows:

		Interest	40	Sinking	Fund	783 78 70 51	.Δ, .φ
1918 1919 1920 1921 1922	ek er-	\$100.00 478.5 583.25 743.60 837.52	P	Y140.31 1199.39 219.65 249.38	sa chirts	\$129.03 618.85 782.68 963.25 1,086.90	
Total -		\$2,742.95	postale in specie - Filler for on that make interpretance	\$837.76		\$3,580.71	aggiventure o

Relations with the Town of Orillia

Previous to 1899 Orillia obtained its electrical energy from a steam plant. In 1899 the Town decided to use water power for this development and chose a site at Ragged Rapids. on the Severn River, about twenty miles from the Town. The Town leased the necessary water powers and privileges and under authority obtained from the Provincial Government proceeded with the development. Originally the Town had the

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right to distribute and sell electrical power within a five mile radius of the town, but a subsequent enactue at increased THE RESIDENCE OF THE PARTY OF STREET, ST. 474. this radius to twenty-five miles. The plant was completed after Ales the working payers will see and o option many setbacks in 1902. Owing to the construction of the SEE WEEK LITTLE ALLE BE MADE TAXABLE OWNER, BARRISON DOLLARS. Severn Division of the Trent Valley Canal by the Dominion NAME AND POST OFFICE ADDRESS OF THE PARTY OF THE PARTY. Government, the town was asked to move its plant from Ragged THE PARTMENT AND LABOUR. Rapids to a new location at Swift Rapids. The Dominion Governwhere the "her provided in Party State of the Party of the State of th ment undertook to build, at its own expense, a dam at the new INCOMES AN A PROPERTY OF PERSON DAYS AND ADDRESS OF TAXABLE PARTY. site. The new work was proceeded with and was still in course De Impolished May My offer, by the m of construction when war broke out. The plant was installed in 1917 at a stated cost of \$114.000. exclusive of building and secured the apply become development which were constructed by the Federal Government.

In 1914 the Consideration instituted a campaign with the view to absorbing the Orillia System. Negotiations between the Commission and the town went on for some time and various offers were submitted and considered. The final offer of \$225,000., which did not include the cost of the generators, etc. which had to be subsequently installed, was submitted to the vote of the electors on May 22nd, 1916. The by-law was defeated 79 for and 513 against.

Agreements with Orillia

On December 9th, 1919, an agreement was entered into with the Orillia Commission for a supply of power. This agreement was approved by Order-in-Council, dated April 28th, 1920.

This is a reciprocal agreement whereby each of the systems gives the other first call on any surplus of power

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the 1st November, 1916. We are informed by Mr. T. G. James that the Orillia System under this arrangement has available, at most times, 2000 herse-power for Hydro purposes, and in his estimation this amount will be available for some years to come. Sub-section (c) of the agreement provides that the Power Commission is "to purchase from the corporation for \$10,000. with interest at 6 per cent. per annum from 1st November, 1918, that part of the transmission line new owned by the corporation connecting the Big Chute development with the corporation's abandoned plant at Ragged Rapids". The Power Commission subsequently carried out this part of the contract.

In addition to the above, the Power Commission has a subsequent contract with Orillia, dated September 1st, 1922, whereby 800 horse-power at a price of one-quarter cent (20) per kilowatt is reserved for the Power Commission until September 1st, 1925.

Circumstances of Longford Mills Incident

Longford, a very small community, now a Police Village, contains two industries which were desirous of obtaining power - the Longford cuarry Company and a branch of the Standard Chemical Company. The Municipality is located about five or six miles from the main transmission lines of the Commission and about the same distance from the main transmission lines of the Grillia Water, Light and Power Commission. In 1915, the above mentioned companies asked

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for estimates from the Orillia Water, Light and Power Commission and from the Power Commission, who were both very anxious to secure the contracts. The Power Commission held several meetings and made every endeavor to persuade the people to carry the by-law in their favour. Several Orillia financiers had capital invested in the Standard Chemical Company and wished to see the Orillia Water, Light and Power Commission obtain the contracts.

The result of the vote on the by-law submitted in the Township of Rama. June 7th, 1915, was in favour of the Orillia Commission. In spite of this the Power Commission sent Engineers to address espites in the Townships of Rama and Mara, through which Townships the power lines of the Orillia Commission would have to pass to reach Longford Mills, with a view to persuading these Townships to refuse permission for the rights-of-way through the said Townships. The Power Commission did all in its power to prevent the Orillia Commission from carrying out the contracts which the Power Commission itself had been refused. Telegrams were sent to the municipalities of Beaverton, Cannington and Woodville in this connection as follows:

Meeting Mara Council Monday. Urge attendance strong deputation to oppose granting Orillia franchise.

Your interest in Wasdell's Power System may suffer ".

In addition the following lefter was sent by the Commission, copies of which were mailed to the municipalities of Wood ville, Cannington, Beaverton, Brechin and the Townships of Mara, Thorah and Brock:-

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"June 17th, 1915. P. Fr. E.

and the second property of the second Mr. Vroman. Inspecting Trustee, SUNDERLAND, Ontario.

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Dear Sir:- Re: Power to Longford Mills

You are undoubtedly now aware of the attempt being made by the Orillia Light and Water Commission to transmit power through Rama and Mara Townships to the Standard Chemical Company, at Longford Hills,

We wish to draw your attention to this matter again, since the Township of Rama on June the 7th passed By-law No. 327 giving the Orillia Water, Light & Power Commission rights through the Township of Rama. This franchise was secured from the Township Council hurriedly and in such a manner that the Township Council was not aware that the interests of other parties were a svake. Though the me were he will

We have reason to believe that the Township Council of Rama will reconsider this By-law and we suggest that you send a strong deputation to the next meeting of the Rama Township Council for the purpose of showing reasons why said By-law No. 327 should be repealed and rendered null and void.

We understand that the next meeting of the Rama Township Council is to be held at the pleasure of the Reeve, Mr. Henry Hevener, R. R. #2, Atherley rost Office, and we are writing to suggest that they hold their next Township meeting at their Township Hall at Fawkham Corners on the morning of Wednesday, June 23rd. co. but severed or over contracts of the time

Please note that Mr. P. Byrne, Councillor, of Beaverton, has consented to act as local organizer for this matter, and you would do well to communicate with him by 'phone in connection with the how of meeting.

We might advise that we expect to have a representative at this meeting, and since the Township Councillors of Rama have expressed their ignorance of the Hydro Commission's operation and methods, we ask that you join with our representative and the representatives from the other municipalities on the Wasdell's System in taking the Rama Township Council for a visit to our power house at Wasdell's Falls on the date indicated above.

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We are cortain that if these Councillors are made acquainted with this Commission's aims and duties to the ratepayers they will be willing to reconsider their former action and repeal By-law No. 327.

THE RESIDENCE

IN In course to have the opening fraction to management

We are writing to the Township Council of Rama setting forth the reasons why said By-law should be repealed. These are substantially the same reasons as put forward at the meeting held in Brechin on June 14th, when the Orillia Commission attempted to have a By-law passed through the Mara Township Council. As you well know, a stubbern fight was put up by the Orillia Commission to secure entrance into and through the Township of Mara. It was only due to the united efforts and hearty co-operation of the ratopayers and officials on the Wasdells System that the efforts of Orillia to invade your power field were defeated.

We are well aware of the ability and resourcefulness of the Orillia Commission, and while you have
secured a victory in Mara, we believe it of vital interest that you should also secure the repeal of the
By-law in Rama. It is far this reason that we are
writing you at length rejugating your co-operation
and attendance at the Rama meeting. We trust that you
will not consider this of secondary importance, and
will, if possible, send a strong and representative
delegation to the meeting in Rama.

In our letter to you re the meeting in Mara we sot forth the reasons for our position. In view of the information secured at the Mara meeting we are able to directly refute some of the statements made by the Orillia Commission and the Chemical Company. We briefly summarize the reasons for your opposition to the Orillia application as follows:

- (1) At the expense of over \$226,000., loaned by the Province, but secured by our contracts with the municipalities on the Wasdell's System, this Commission has erected a modern and first-class generating and transmission system to serve the northern half of Ontario County and the adjoining district to the east.
- (2) Contracts with the various municipalities provide that the ratepayors thereof agree to pay all expenses of the system, and, in addition, refund to the Government, with interest, the investment made. The investment is, therefore, your investment and this Commission is acting only as frustee in the matter.

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We are serbula that if these Secratilers are to the ratespayers they will be willing to reconsider their former motion and repond By-law No. 557.

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 (3) In order to make the system feasible it was necessary for the municipalities to pledge themselves to use certain quantities of power. Since the system was only placed in operation last fall, it has, of course, been impossible to utilize the full amount of power contracted for. There is, therefore, a surplus of power available on the system, and since the enterprise is co-operative and mutually helpful to all the municipalities contracting for power the present price of power is high.

Increase the amount of power used, making it very necessary that in the districts served every possible power user be secured for your system. We contend that Orillia's attempt to secure a power contract at Longford is a direct invasion of the power field which rightfully belongs to your system. It is very evident, therefore, that it is to the interest of every rate-payer in Morthern Ontario County, and even in the adjoining district to the west, which at present or in the future will secure power from the Wasdellis System, to oppose the attempt of Orillia to enter the Wasdells field.

At the meet ng helpin Brechin on the 14th attended by a large delegation from your district, and also a strong delegation from Orillia, the latter contended that this Commission and yourselves were asking Mara Township to be the "dog in the manger" and refuse Orillia permission to pass through the Township when the Township has nothing to lose. They appealed on the score of sympathy for the Chemical Company, claiming that the Orillia power contracts would mean a large saving - some \$5,000 or \$6,000 - to the Chemical Company. We wish to directly refute these statements and believe that you will agree with our contentions.

As far as we can find in the By-law passed in Rama Township, and the one submitted to Mara, no compensation was offered to these Townships in any way. The Township of Rama has given the Orillia Commission permission to trim trees along the highways without sufficient protection to the Township's interests. There is nothing in the By-law giving the Township the right to regulate the manner of creeting the transmission line, or any supervision over its type of construction or safety. The By-law is indefinite in that it has no termination.

The Orillia Commission, it is true agrees to supply users along the proposed route of transmission line at rates current in Orillia, plus 10%, but you will

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 note that the revenue must be sufficient to pay 25% annually on the cost of the line, transformers, etc. Can the residents of Rama Township prove that the possible revenue will meet with these conditions? What protection has Rama Township in this regard, and how can they force the Orillia Commission to serve farmers and others along the route?

The entire By-law is drawn up in favor of Orillia, and with no protection whatever to the Township of Rama.

As far as the possible saving in power bill to the Chemical Company is concerned, by buying power from Orillia, we have requested permission to see the proposed Orillia power centract and have been refused. We have reason to believe that the terms and conditions, as well as the price offered by Orillia, are not so good as the terms and conditions offered by this Commission for service from the Wasdell's System.

It should be not ed in passing that we have negotiated with the Chemical Company for many months and submitted definite contracts. We have had reason to believe that the terms and prices were agreeable to the Chemical Company and in labor they ordered an electric pump on the strength of this Commission's power quotation.

Our proposed contract with the Chemical Company is public property and the terms and conditions thereof are open to all for inspection and criticism. The same cannot be said of the Orillia contract. The Orillia Commission has been negotiating in prevate with the Chemical Company, and it is impossible for us to secure from either the Orillia Commission or the Chemical Company the terms and conditions of their proposed contract, so that we may be satisfied that power from Orillia will save anything to the Chemical Company.

In justice to yourselves and to this Commission as your Trustees, we should be in possession of the facts, in order to meet the contention of the Chemical Company that Orillia can sell them power cheaper than we can.

It is evidently realized that the proposed Orillia contract will not bear inspection by our engineers.

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Our offer to the Chemical Company was 200 horsepower at \$35.00 per horse-power per year, delivered on
their ground in Longford at 2,300 volts. A ten-year
contract was submitted on the above terms and a guarantee
was asked to secure our investment in the transmission line
from Fawkham to Longford, and a substation in Longford.

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while possibly Rama Township is not vitally interested in Hydro power at this time as are other Townships to the south, we believe that you can point out
to them that if they as a municipality wish to contract
for power they may do so and enjoy with the other
municipal partners in the scheme all the benefits to
be derived from a supply of cheap electric power.

We believe also that the Township of Mara will appreciate that loyalty to Ontario County and the Wasdells District is more necessary than loyalty to Orillia. We one has shown that it would be a hardship on the Chemical Company to take power from this Commission's Wasdells System instead of from Orillia. Until they can prove this to our satisfaction we have grave doubts on the matter. They have evidently appealed to the sympathy of the Townships, and particularly to Rama, wherein is located the large plant of the Chemical Company.

It should also be noted that prominent citizens of Orillia are interested in the Orillia Commission, as well as the Standard Chemical Company of Longford. There is evidently a sympathetic connection between the two parties, which is endeavoring to make an agreement to their mutual advantage and to the serious disadvantage of your investment in the Wasdell's System.

As stated earlier in this letter. Mr. P. Byrne of Beaverton will communicate with you in the event of any change in the date for the meeting in Rama Township.

We ask your continued co-operation in this matter, and feel cortain that you will again respond.

Very truly yours,

HYDRO-MEROTRIC POWER COMMISSION OF OMPARIO

Chief Engineer".

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As the municipality of Longford Mills is obtaining power from the Orillia Water, Light and Power Commission. It is apparent that the efforts of the Power Commission to reverse the vote on By-law No. 527, referred to in the foregoing letter, was not successful.

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going letter, was not successful.

The foregoing review of the inauguration, conditions and operations of the Wasdell's System discloses subject matters common to other undertakings of the Commission requiring careful consideration and probably statutory amendments to more clearly define the powers and duties of the Commission. These general subject matters include those of " "Renewal Reserves", "Sinking Fund Reserves", "Rural Lines", the more or less indiscriminate use of funds in the hands of the Commission without regard to the specific purposes for which they were advanced, the policy and practice which should be followed by the Commission when it enters fields already occupied by other lower undertakings, especially in such cases as in the Wasdell's System, where a municipality within the system has its own power development and distributing System and prefers to remain free from the jurisdiction and control of the Commission.

We propose to deal with such general matters in our General Report and respectfully reserve comment upon the Wasdell's System other than what appears in the foregoing review.

All of which is respectfully submitted.

DATED AT TORONTO, Supt. 214 1923

W. D. Gregory, Chairman

M. J. Haney Lloyd Harris

J. Allan Ross

R. A. Ross

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DATED AT TORONTO, J. Co. L. 2223

W. D. Gregory, Chairman

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